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NOTICE OF ALLOWANCE AND FEE(S) DUE

38834

7590

07/08/2010

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036 EXAMINER

PASCHALL, MARK H

ART UNIT PAPER NUMBER

3742 DATE MAILED: 07/08/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594.277	09/26/2006	Yoshiaki Watanabe	063028	3346

TITLE OF INVENTION: ACOUSTIC HEATER AND ACOUSTIC HEATING SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	10/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further	correspondence includir ed below or directed oth	ng the Patent, advance of	rders and notification of r	naintenance fees w	ill be	mailed to the current	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
1250 CONNEC' SUITE 700	TICUT AVENUE, I	NIELS & ADRIA		Cert	tificate	of Mailing or Trans	
WASHINGTON	N, DC 20036						(Depositor's name)
							(Signature)
							(Date)
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nonprovisional	YES	\$755	\$300	\$0		\$1055	10/08/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
PASCHALI	L, MARK H	3742	219-482000	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	oondence address (or Cha B/122) attached. lication (or "Fee Address)2 or more recent) attach	or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be	of up to 3 registered patent attorneys alternatively, of a single firm (having as a member a rney or agent) and the names of up to atent attorneys or agents. If no name is				
PLEASE NOTE: Unl	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. and STATE OR C	OUNI	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Co	rporati	on or other private gro	up entity Government
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5. Change in Entity Sta	itus (from status indicated as SMALL ENTITY statu	*	b. Applicant is no lon	car alaiming SMAI	I DN	FITY status See 27 C	ED 1.27(a)(2)
	d Publication Fee (if requ	uired) will not be accepte	d from anyone other than t				e assignee or other party in
•				Date			_
Typed or printed name							
	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC			-			by the USPTO to process) g gathering, preparing, and neutront of Commerce, P.O. For Patents, P.O. Box 1450,

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WESTERMAN,	HATTORI, DANIEI	PASCHALL, MARK H			
	CUT AVENUE, NW	ART UNIT PAPER NUMBER			
SUITE 700 WASHINGTON, I	DC 20036		3742 DATE MAILED: 07/08/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 791 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 791 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/594,277	 WATANABE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Mark H. Paschall	3742	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet was (OR REMAINS) CLOSED or other appropriate coming IGHTS. This application is	vith the correspondence address in this application. If not included nunication will be mailed in due course. T	
1. This communication is responsive to papers filed on 4-22-	<u>2010</u> .		
2. The allowed claim(s) is/are <u>1-12</u> .			
3. Acknowledgment is made of a claim for foreign priority up a) All b) □ Some* c) □ None of the: 1. Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Applica cuments have been receiv	ion No ed in this national stage application from	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give)F
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	E □ Nation of	Information Defeat Annille of the	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		Informal Patent Application Summary (PTO-413),	
	Paper No	o./Mail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ∐ Examiner	's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allowance	
/Mark H Paschall/	9.	_ ·	
Primary Examiner, Art Unit 3742			

Allowable Subject Matter

Claims 1-12 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not teach the claimed acoustic heating system having a loop tube with first and second portions, a first and second stack in the tube section, with a first and second, respectively, low and high temperature heat exchanger provided in the first and second stacks, With liquid provided for cooling in the low temperature heat exchanger in the second stack to provide a temperature gradient in the second stack by propagating a standing wave and a traveling wave in the loop from the first stack to the second stack, with heat output from the high temperature output side heat exchanger disposed on the second stack side, as set forth in the only independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Oeftering et al, Garrett and fet al are cited for disclosing state of the art acoustic heating systems of interest to the disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark H. Paschall whose telephone number is 571 272-4784. The examiner can normally be reached on 7am - 3pm.

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Art Unit: 3742

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mark H Paschall Primary Examiner Art Unit 3742

Mhp

/Mark H Paschall/ Primary Examiner, Art Unit 3742